

LAND APPLICATION SITE

GEORGE J. REITER SITE

DWGJR 1-4

DINWIDDIE COUNTY

PART D-VI BIOSOLIDS APPLICATION AGREEMENT

Mailing Address: _____
 _____ P.O. Box 562
 _____ Remington Virginia 22734
 _____ (540) 547-3300

PART D-VI BIOSOLIDS APPLICATION AGREEMENT

P.O. Box 562
Remington Virginia 22734
(540) 547-3300

George J. Reiter Site

[illegible]

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
DWGJR1	17.4	17B	-	-	-	CU54	TM35 P 52	T1513
DWGJR2	35.0	17A,17B	-	-	-	CU54	TM35 P 52	T1513
DWGJR3	35.2	17B	-	-	19B JAN-APR	CU29	TM49 P 9	T3114
DWGJR4	24.5	-	-	-	19B JAN-APR	CU28	TM88 P 9	T3099
TOTAL ACRES IN SITE	112.1							

REPORT NUMBER

R101-020

A&L EASTERN AGRICULTURAL LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237 • (804) 743-9401

Fax No. (804) 271-6446



ACCT # 70594

SEND
TO:

RECYC SYSTEMS INC
P. O. BOX 562
209 MAIN ST
REMINGTON VA 22734

GROWER:

GEORGE J REITER JR

SAMPLES

SUBMITTED

BY:

STANLEY REID

DATE OF REPORT

04/11/96

PAGE

1

SOIL ANALYSIS REPORT

DATE RECEIVED 04/09/96

DATE OF ANALYSIS 04/10/96

SAMPLE NUMBER	LAB NUMBER	ORGANIC MATTER		PHOSPHORUS		POTASSIUM	MAGNESIUM	CALCIUM	SODIUM	pH		HYDRO- GEN H meq/100g	Cation Exchange Capacity C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED)				
		%	ENR lbs/A	P1 (Weak Bray) ppm-P RATE	P2 (Strong Bray) ppm-P RATE	K ppm-K RATE	Mg ppm-Mg RATE	Ca ppm-Ca RATE	Na ppm-Na RATE	SOIL pH	BUFFER pH			% K	% Mg	% Ca	% H	% Na
6JR1	01575	2.1	93M	67 VH	51 VH	197 VH	64 M	420 M		6.1	6.9	0.5	3.6	13.8	14.6	57.5	14.0	
2	01576	2.2	95M	84 VH	103 VH	138 VH	61 H	410 M		6.5	7.0	0.2	3.1	11.2	16.1	65.1	7.5	
3	01577	2.6	93M	71 VH	80 VH	162 VH	99 VH	520 M		6.2	6.9	0.5	4.4	9.5	18.9	59.6	12.0	

(SEE EXPLANATION ON BACK)

SAMPLE NUMBER	NITRATE NO ₃ ppm-N RATE	SULFUR S ppm-S RATE	ZINC Zn ppm-Zn RATE	MANGANESE Mn ppm-Mn RATE	IRON Fe ppm-Fe RATE	COPPER Cu ppm-Cu RATE	BORON B ppm-B RATE	EXCESS LIME RATE	SOLUBLE SALTS mmhos/cm RATE	CHLORIDE Cl ppm-Cl RATE	MOLYB- DENUM Mo ppm-Mo RATE	PARTIAL SIZE ANALYSIS			
												% SAND	% SILT	% CLAY	SOIL TEXTURE

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by:

A & L EASTERN AGRICULTURAL LABORATORIES, INC.

by *Norman Jones*
C. NORMAN JONES

CODE TO RATING: VERY LOW (VL), LOW (L), MEDIUM (M), HIGH (H), VERY HIGH (VH), AND NONE (N).
ENR - ESTIMATED NITROGEN RELEASE

MULTIPLY THE RESULTS IN ppm BY 4.6 TO CONVERT TO LBS. PER ACRE P₂O₅
MULTIPLY THE RESULTS IN ppm BY 2.4 TO CONVERT TO LBS. PER ACRE K₂O



Send To: RECYC SYSTEMS INC
POB 562
REMINGTON, VA 22734

Grower: A VALENTA
DINWIDDIE

Submitted By: H MOODY

Farm I D: Field I D:

Susan Trumbo

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich III

Page: 1 Date Received: 2/16/2009 Date of Analysis: 2/17/2009 Date of Report: 2/18/2009

Sample Number	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C.		
		%	ENR lbs/A	Rate	Available ppm	Reserve ppm	Rate	K ppm	Rate	MG ppm	Rate	CA ppm	Rate	NA ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g			
DW6344	12514	1.1	66	L	141	VH		90	M	66	M	571	H		6.4	6.9	0.4	4.0				
DW6344	12515	1.2	68	L	134	VH		84	M	65	M	564	H		6.5	6.9	0.3	3.9				
Sample Number	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO3-N		SO4-S		ZN		MN		FE		CU		B			CL	AL
						ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ms/cm		
DW6344	5.8	13.8	71.5		8.9																	
DW6344	5.6	14.0	73.0		7.4																	

4 LE-504

Values on this report represent the plant available nutrients in the soil.
Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High).
ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre),
ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams).
Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to the sample(s) tested. Samples are retained a maximum of thirty days after testing. Soil Analysis prepared by: A & L EASTERN LABORATORIES, INC.

by:

Paul Chu, Ph.D.

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2009-Summer, 2010)
George J Reiter
Planner: Recyc Systems, Inc

Tract: 1513 Location: Dinwiddie
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/gjr 01(1P)	17/17	2009	Orchardgrass hay mt.	90-0-170	0/0				90-0-170	59			
		2010	90-0-170	0/0				90-0-340	118			
2 3 4/gjr 02(N)	35/35	2009	Orchardgrass hay mt.	90-80-170	0/0				90-80-170	N/A			
		2010	90-80-170	0/0				90-160-340	N/A			

Tract: 3099 Location: Dinwiddie
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1 3 /gjr 04(1P)	25/25	2009	Soybeans (FS)	0-0-60	0/0				0-0-60	22			
			Fallow	0-0-0	0/0				0-0-60	22			
		2010	Corn (grain)	100-0-60	13/0				90-0-120	60			

Tract: 3114 Location: Dinwiddie
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/gjr 03(N)	35/35	2009	Orchardgrass hay mt.	90-80-170	0/0				90-80-170	N/A			
		2010	90-80-170	0/0				90-160-340	N/A			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

THE PLANNER IS NOT STATE CERTIFIED

George J Reiter Narrative

This is the George Reiter farm located in Dinwiddie County. The farm consists of row crop and hay fields.

This is a partial plan written for the purpose of obtaining a biosolids permit. Biosolids application has not been shown since it is uncertain when a permit will be obtained. The partial plan will be revised prior to biosolids application to obtain a target biosolids application rate.

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
1513	gjr 01	17	2009-Sp	VH (134 P ppm)	M (84 K ppm)	A&L MIII	6.5		
1513	gjr 02	35	[No Test]						
3099	gjr 04	25	2009-Sp	VH (141 P ppm)	M (90 K ppm)	A&L MIII	6.4		
3114	gjr 03	35	[No Test]						

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
1513	1513/1	gjr 01	17	Emporia	IIIa	II	III	II	
	1513/2	gjr 02	35	Emporia	IIIa	II	III	II	
	4								
3099	3099/1	gjr 04*	25	Uchee	IVb	II	Not Suited	III	High Leaching
3114	3114/1	gjr 03	35	Emporia	IIIb	II	III	II	

* Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applications.

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Spring, 2009 - Summer, 2010

Farm Name: George J Reiter

Location: Dinwiddie

Specialist: Recyc Systems, Inc

Tract Name: 1513

FSA Number: 1513

Location: Dinwiddie

Field Name: gjr 01

Total Acres: 17.40 Usable Acres: 17.40

FSA Number: 1

Tract: 1513

Location: Dinwiddie

Slope Class: B Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2009	6.5	VH(134 P ppm)	M(84 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
80	5B	Emporia
20	17B	Slagle

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Sp	3.7 tons	Orchard grass (hay), maint. - No Till
2010-Sp	3.7 tons	Orchard grass (hay), maint. - No Till

Field Name: gjr 02

Total Acres: 35.00 Usable Acres: 35.00

FSA Number: 2 3 4

Tract: 1513

Location: Dinwiddie

Slope Class: A Hydrologic Group: C

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
75	5A	Emporia
20	17A	Slagle
5	17B	Slagle

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Sp	3.8 tons	Orchard grass (hay), maint. - No Till
2010-Sp	3.8 tons	Orchard grass (hay), maint. - No Till

Tract Name: 3099
FSA Number: 3099
Location: Dinwiddie

Field Name: gjr 04
Total Acres: 24.50 **Usable Acres:** 24.50
FSA Number: 1 3
Tract: 3099
Location: Dinwiddie
Slope Class: B **Hydrologic Group:** A

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2009	6.4	VH(141 P ppm)	M(90 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	19B Uchee	

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Crop Rotation:

PLANTED	YIELD	CROP NAME
---------	-------	-----------

2009-Sp 25.0 bushel(s) Soybeans (FS) - No Till
2009-Fa 0.0 Fallow - No Till
2010-Sp 100.0 bushel(s) Corn (grain) - Tilled

Tract Name: 3114
FSA Number: 3114
Location: Dinwiddie

Field Name: gjr 03
Total Acres: 35.20 **Usable Acres:** 35.20
FSA Number: 1
Tract: 3114
Location: Dinwiddie
Slope Class: B **Hydrologic Group:** C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
10 5	5A Emporia	Emporia
60 5	5B Emporia	Emporia
10 17	17B Slagle	Slagle
20 19	19B Uchee	Uchee

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2009-Sp	3.4 tons	Orchard grass (hay), maint. - No Till
2010-Sp	3.4 tons	Orchard grass (hay), maint. - No Till

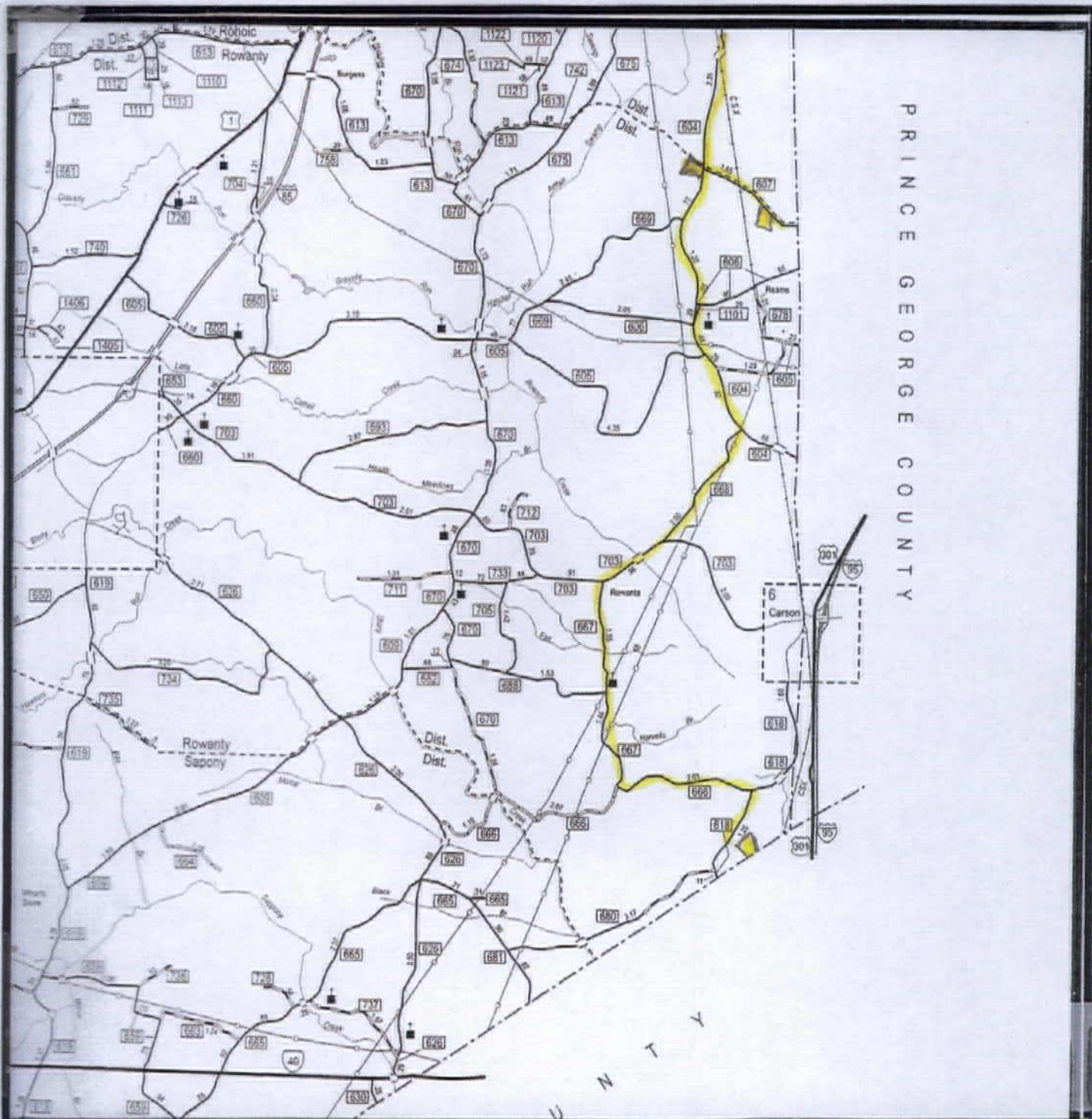


MAPS

Recyc SystemsTM

Inc.

(Biosolids Land Application)



PRINCE GEORGE COUNTY

Scale: 1 inch = 2 miles

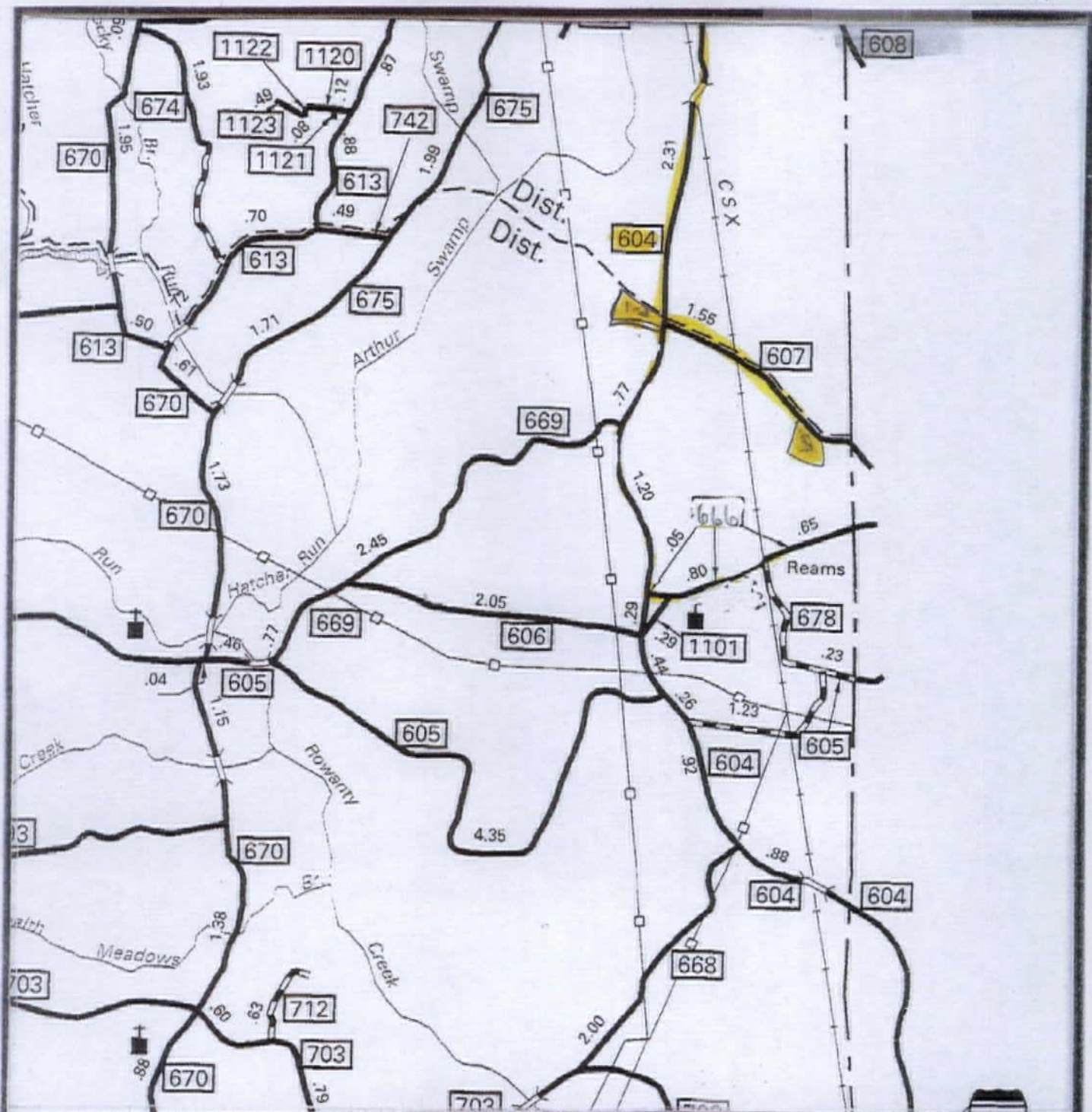
DWGJR 1-4

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

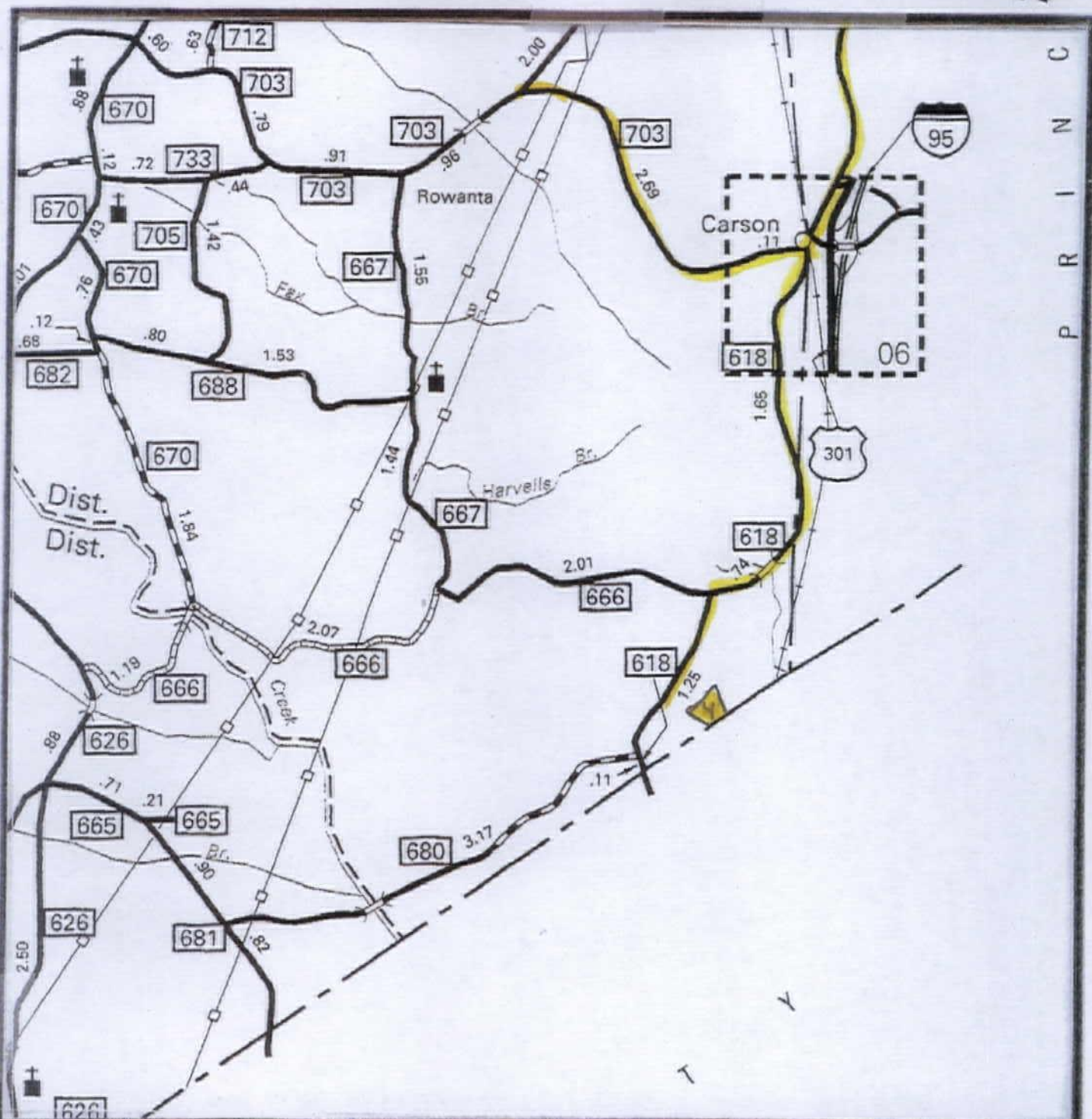
DWGJR 1-3

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 1 mile

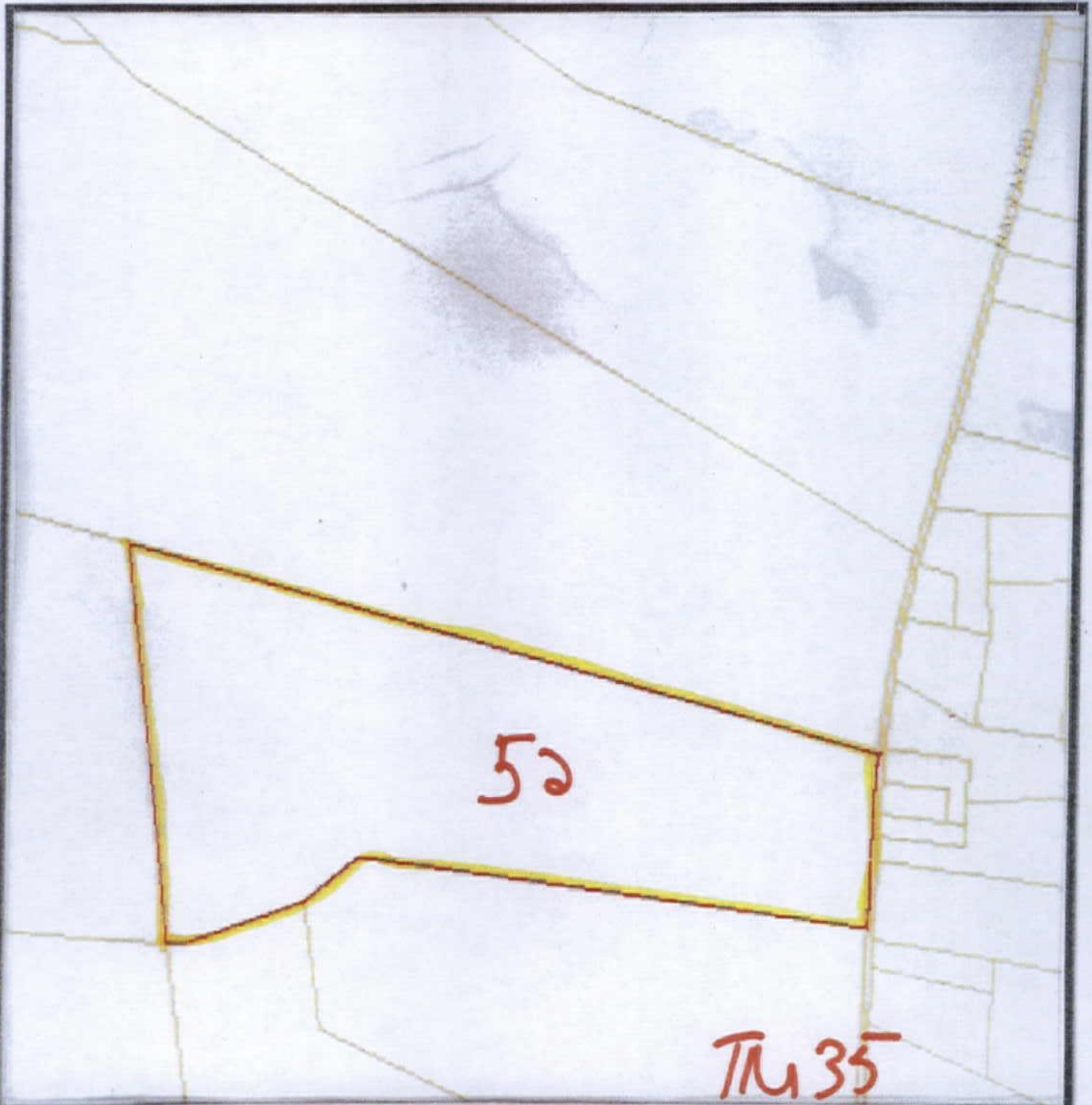
DWGJR 4

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

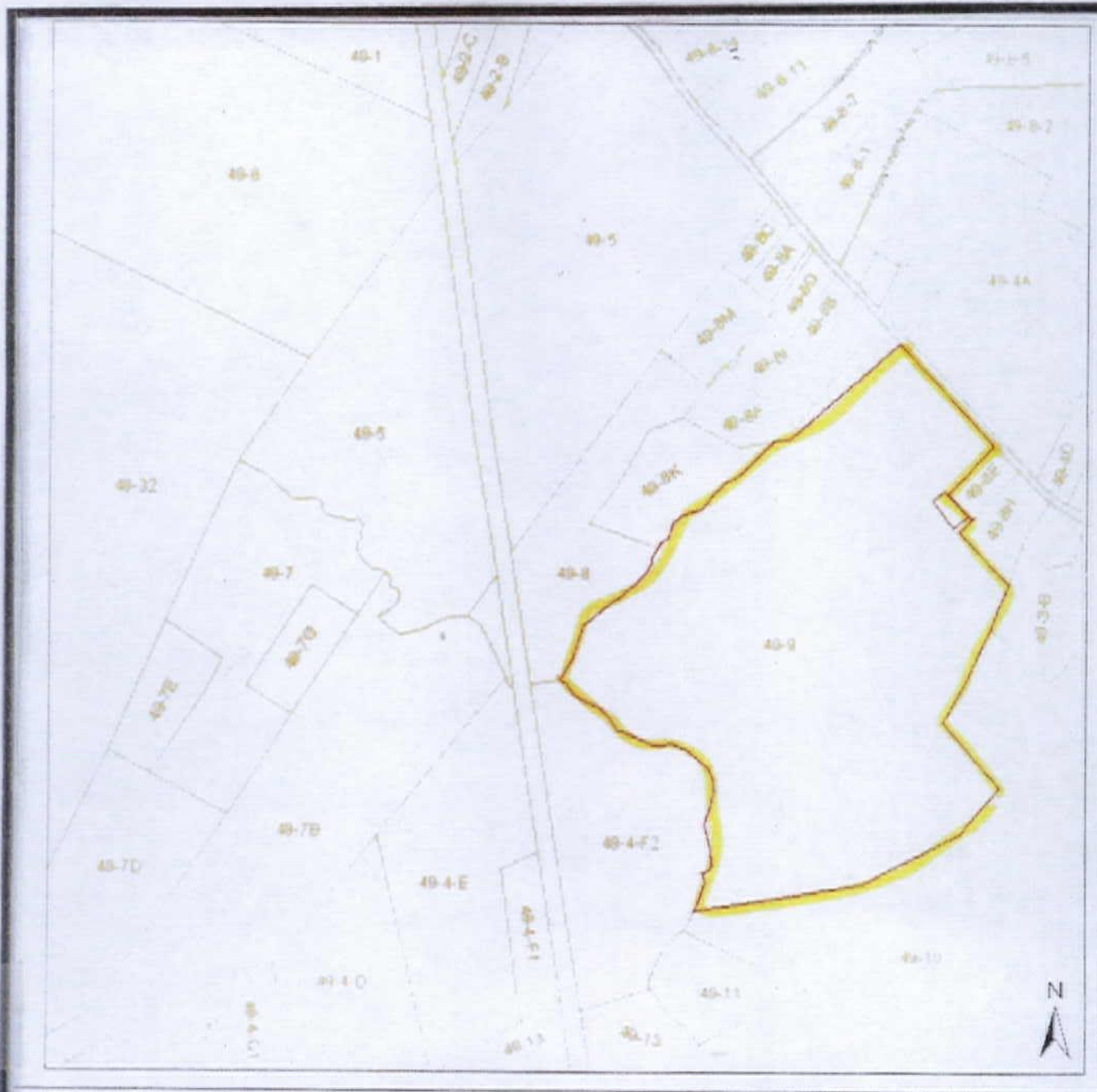
DWGJR 1-2

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



TM 49

Scale: 1 inch = 660 feet

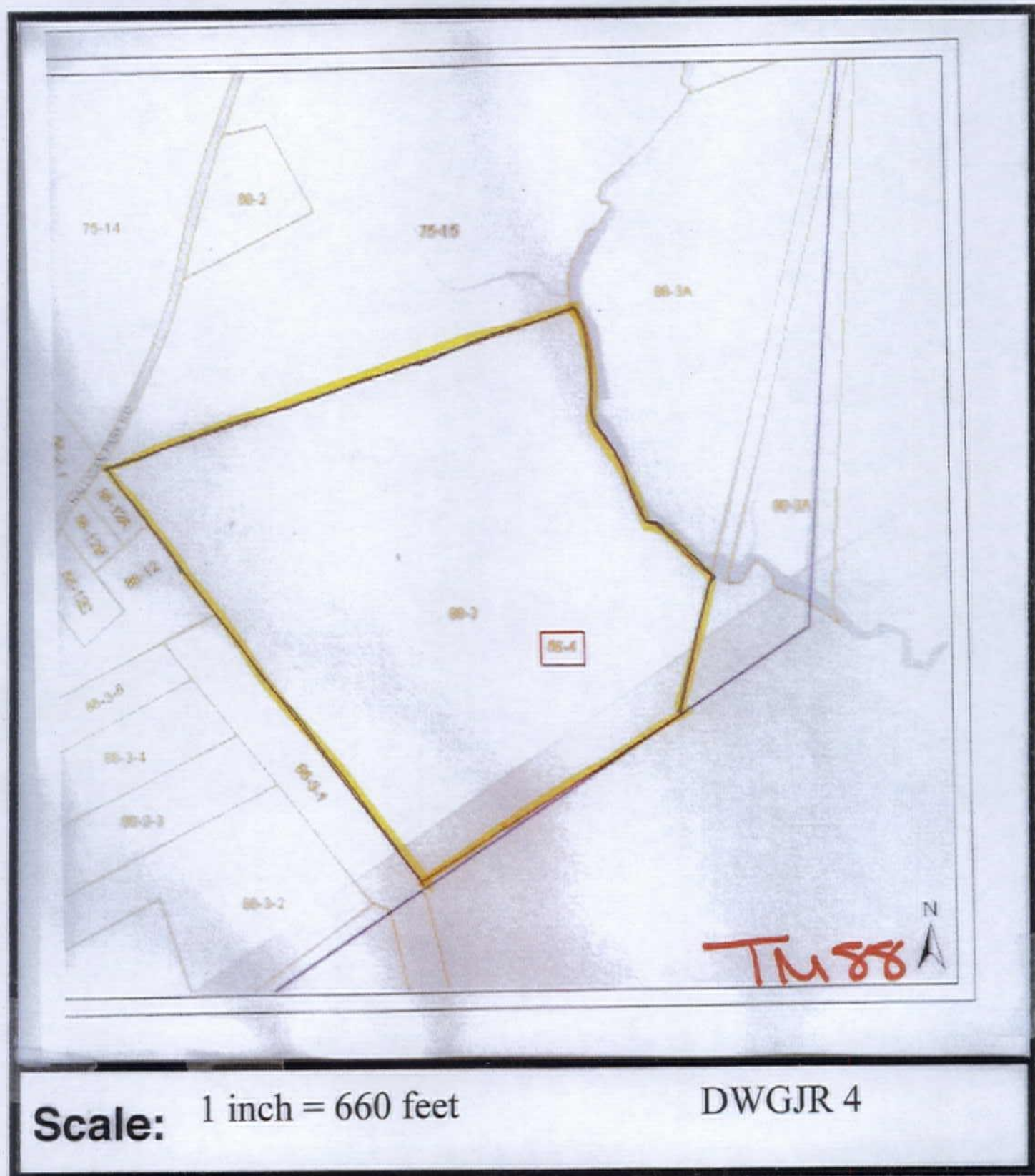
DWGJR 3

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

DWGJR 4

TAX MAP



ADJOINING LANDOWNERS

George J. Reiter

DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
35	47	Liquidationg Properties Inc. c/o America's Service Center
	48	John M. & Deborah F. Robertson
	50	George J. Reiter
	53	Tiaa Timberlands 1 LLC c/o Hancock Forest Management
	55	Tiaa Timberlands 1 LLC c/o Hancock Forest Management
36	15	Walter Gee et ux
	15A	Jacqueline Thompson
	15B	Katherine B. Peterson
	15C	Laberzac Enterprises
	20	Timothy S. Reid
49	4A	Adolph F. Blaha, jr.
	4-F2	John E. & Jane C. Spiers
	8	Agnes Smith
	8E	Joseph E. Morris
	8F	Agnes Smith
	8G	Joseph E. Morris
	8H	Lawrence E. Blaha
	8K	Citi Financial, Inc.
75	15	Walter F. Embrey
88	3A	Warren C. & Nancy B. Bain
	12	Arthur G., Jr. & Deborah Garter
	12A	Robert T. & Sarah Adkins Life Estate
	3-1	Craig Allen Hunt



Scale: 1 inch = 660 feet

DWGJR 1-2

SOIL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

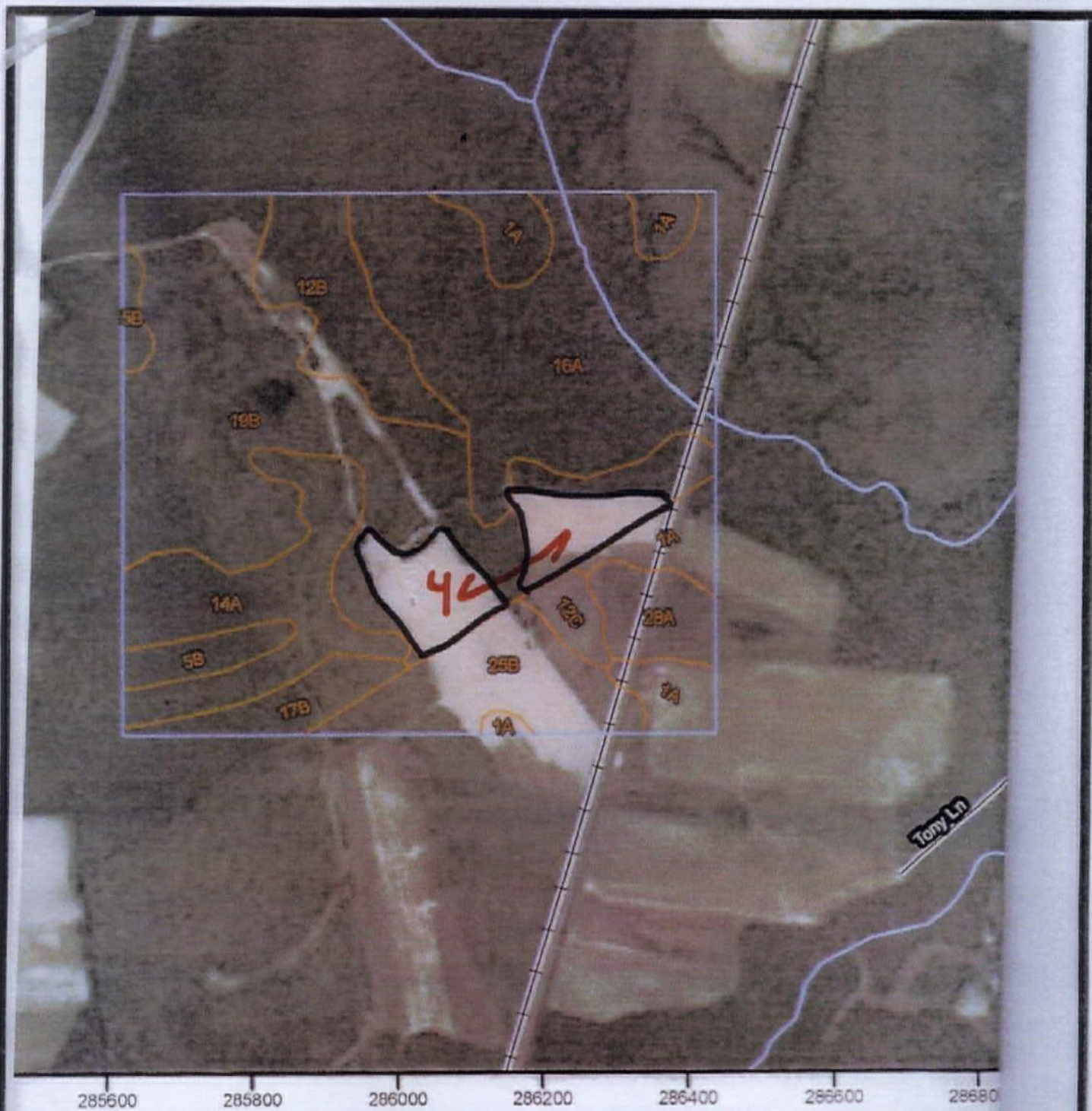
DWGJR 3

SOIL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

DWGJR 4

SOIL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

DWGJR 1-2

AERIAL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



USDA



Tract 3114

0 175 350 700 1,050 1,400 Feet

Disclaimer: Wetland identifiers do not represent the size, shape or specific delineation of the area. Refer to your original determination (CPA-676 and attached maps) for exact wetland boundaries and designations, or contact NRCS.

75

Scale: 1 inch = 660 feet

DWGJR 3

AERIAL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

DWGJR 4

AERIAL MAP



Legend for Site Plan

H/W

House and Well

W

Sp

Well / Spring



Perennial Streams & Surface



Wet Spot



Intermittent Stream / Drainage



Trees and Woods



Private Drive



Rock / Rocky Area



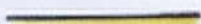
Sinkhole



Severely Eroded Spot



State Road



Field Boundary / Fence



Property Line

SL

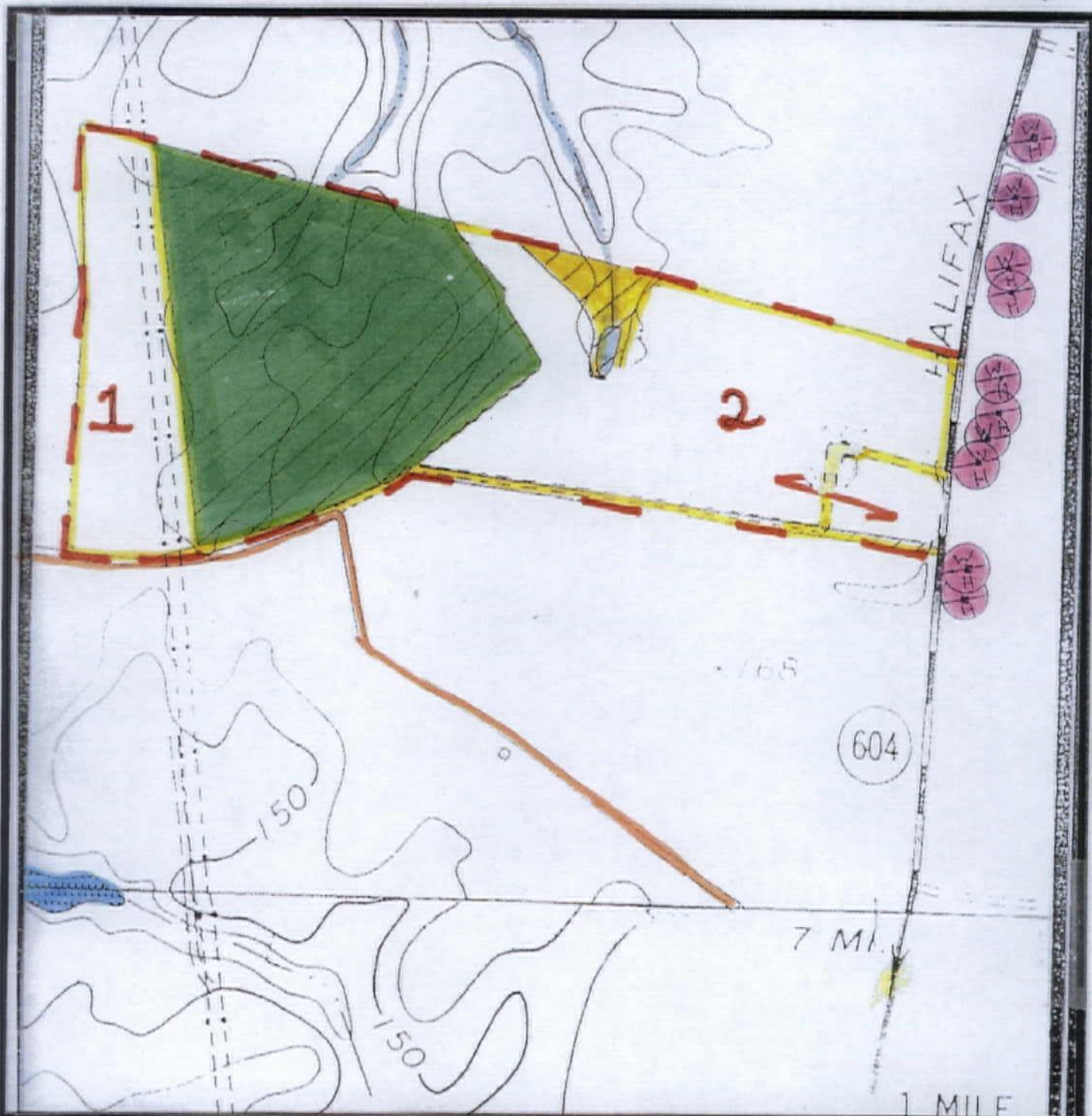
Slope

FF

Frequent Flooded Soil

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

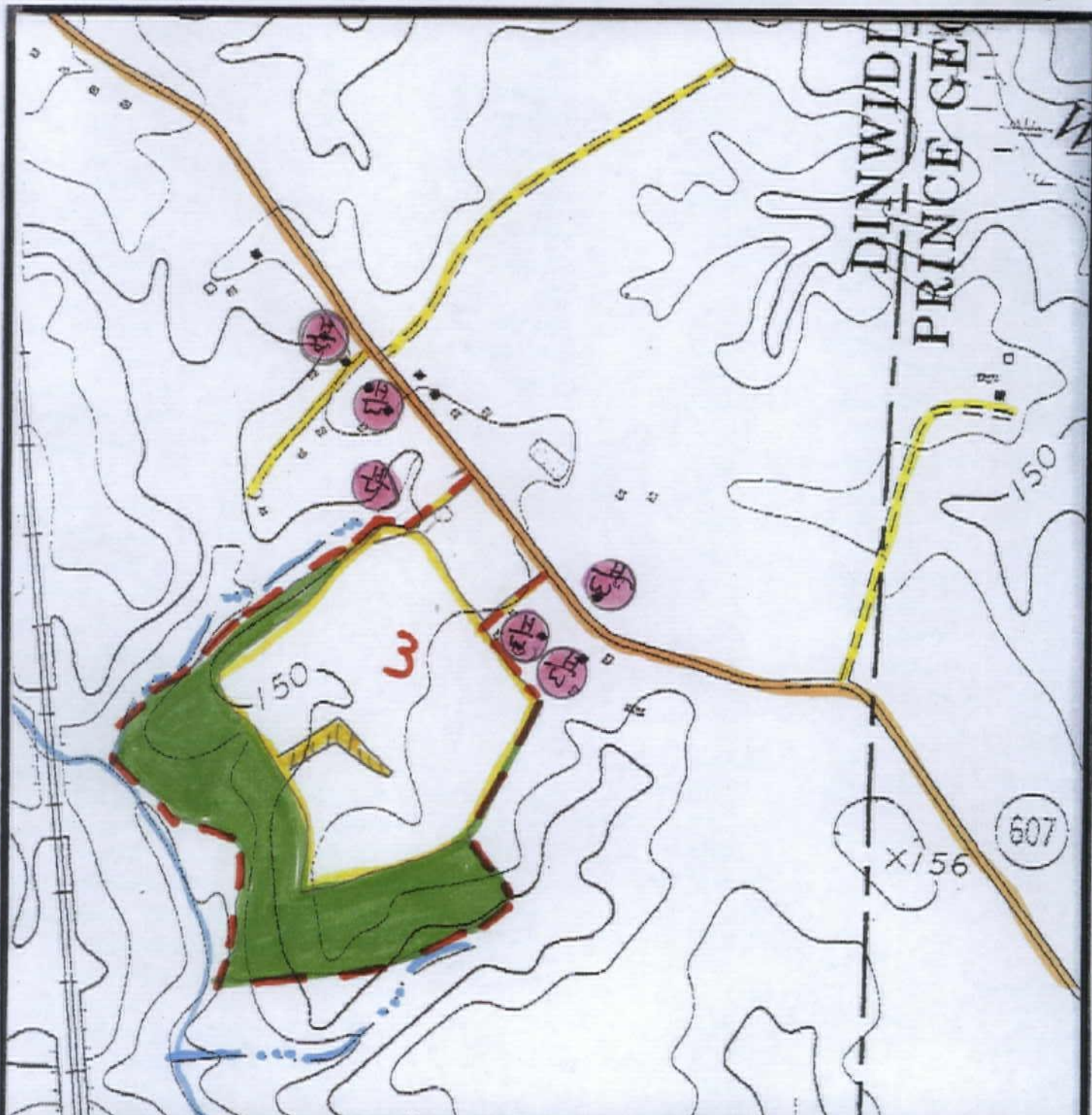
DWGJR 1-2

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

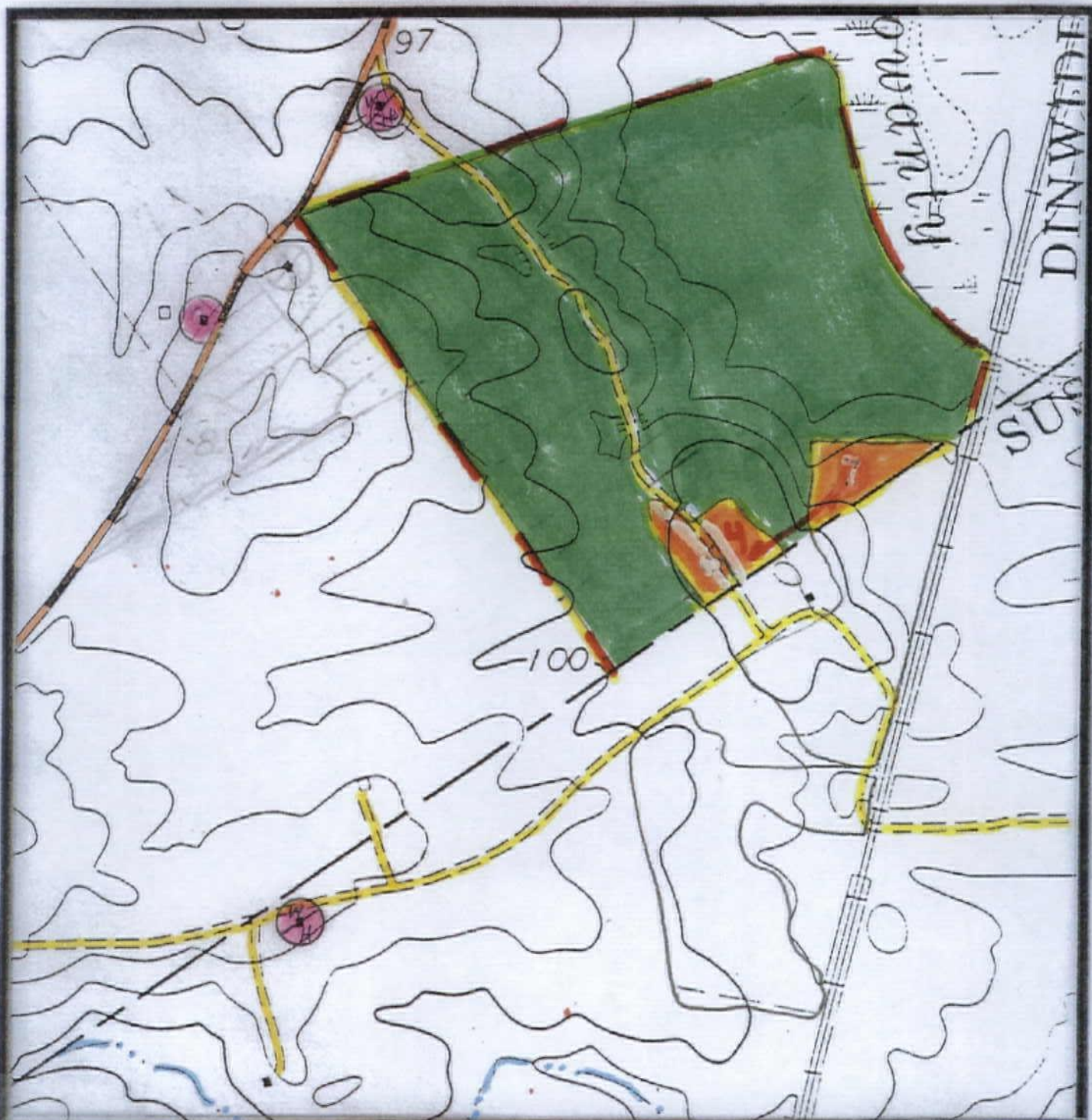
DWGJR 3

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 660 feet

DWGJR 4

SITE PLAN





Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1 inch = 2000 feet

DWGJR 4

TOPOGRAPHIC MAP

